Online Resource 2

Histopathology of the tooth socket 7 days after extraction.

Hemorrhage associated with inflammatory cells is observed in control group (a, c). Acemannan-treated group (16 mg/kg acemannan sponge) exhibits small number of red blood cells incorporated with numerous spindle shaped cells and active osteoblasts line on the alveolar bone surface (b, d). V = blood vessel; arrows = inflammatory cells; arrowheads = osteoblasts. H&E staining; bar = 200 µm (a, b) and 20 µm (c, d).
Histopathology of the tooth socket 14 days after extraction.

In control group, hemorrhage and blood cyst are observed (a) and low number of osteoblasts and spindle shaped cells are seen at the socket wall (c). Acemannan-treated group (16 mg/kg acemannan sponge) shows numerous ingrowths of bone trabeculae (b). Osteoblasts and osteocytes predominantly line on the surface and embed inside of alveolar bone trabeculae, respectively (d). Asterisk = blood cyst; arrowheads = osteoblasts; chevrons = osteocytes; V = blood vessel. H&E staining; bar = 200 µm (a, b) and 20 µm (c, d)